TECHNICAL ISSUES / DATA SHARING

TECHNICAL HURDLES

Development and sharing of community models (software)

- Perception that models should be USACE models; should be easier to use the best available tools
- Standardized incorporation of risk and/or uncertainty
- Improved 3D sediment transport capabilities (integration of long-shore and cross-shore models)
- Comprehensive input forcing, e.g., windfield or input forcing parameter
- Coordinated post-processing routines used to analyze a parameter
- Have uniform output products, regional-scale models (nested)
- Improved capabilities for incorporation of field data collection into modeling environment for calibration and/or validation purposes

Hardware capabilities also can be limiting – need powerful CPU capabilities for regional models.

FIX

Development of a subcommittee / working group open to all interests to address regional technical issues - two major categories:

1. Technical data collection
2. Technical modeling

Comments:

- We don't tend to document data collection.
- Do you have communications capabilities to spread info around the Corps? Yes.
- Can you carry existing info into new software as it's developed? Should be "yes."
- Do you have a lot of different model development efforts going on now? A (Jack Davis): "model" means something different to everyone. Lot of numerical models under development. Now we're trying to reign in these models to an established set of accepted models. Push from Ocean Commission Report to have agencies work together on modeling. Hope to see that USACE models are adopted by others (Navy, NOAA, etc) as national models.